DENON

Hi-Fi FM Stereo/Tuner

SERVICE MANUAL MODEL TU-355 SOLID STATE FM STEREO TUNER



NIPPON COLUMBIA CO.,LTD

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SPECIFICATIONS				
CIRCUIT SYSTEM:	Super heterodyne	CONNECTOR	RTERMI	Antenna (300 ohms, 75 ohms terminal:
Tuning Range:	87.4 - 108MHz	NALS:		& & 750 ohms coaxial connector)
Intermediate Frequency:	10.7MHz			Multi-path Detection
Usable Sensitivity:	1.8µV (IHF)			Fixed Output (fixed)
Signal to Noise Ratio:	80dB			Variable Output (VARIABLE)
AM Suppression:	60dB			Level Meter Inputs
Capture Ratio:	1.0dB	OPERATION	KNOBS:	Power Switch
Effective Selectivity:	85dB			Function (STEREO ONLY, AUTO
Image Rejection:	120dB			MONO)
IF Rejection:	110dB			Level Meter External Input Attenuator
Spurious Response:	110dB			Tuning knob
Frequency Response:	20Hz-15kHz +0.2dB -1.5dB			Muting
Total Harmonic	(MONO) 1kHz 0.15%, 50Hz-10kHz 0.3%	5		Hi. Blend
Distortion:	(STEREO) 1kHz 0.2%, 50Hz-5kHz 0.4%	á		Meter Selector (EXTERNAL, LEVEL,
FM Stereo Separation:	1kHz 45dB 100Hz-10kHz 40dB			SIGNAL)
Carrier Leak (19kHz & 38kHz):	75dB	POWER REQ	UIREMENT:	220V/240V, 50Hz/60Hz (Internal switching)
OUTPUT VOLTAGE		POWER CONS	SUMPTION:	16W

DIMENSIONS:

WEIGHT:

396W x 147H x 281D (mm)

6.8kg.

Fixed Output (FIXED):

1.1V (100% modulation)

Output Impedance:

4.7 kohm

Variable Output (VARIABLE):

0-1.7V

Output Impedance:

1 kohm

LEVEL METERS

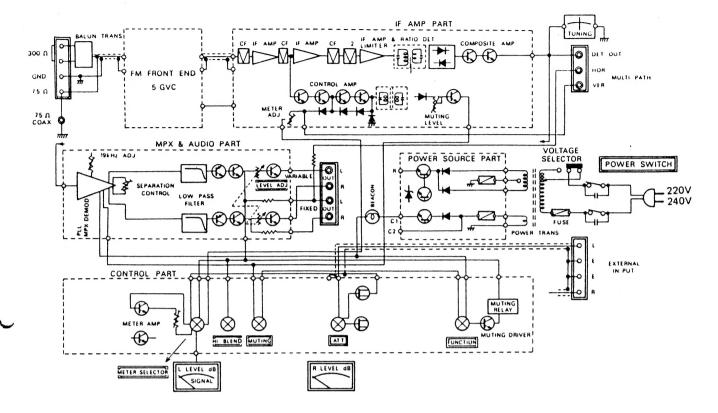
Indication Error:

±0.2dB (EXT. INPUT -20-+30dB) 1kHz

Frequency Response:

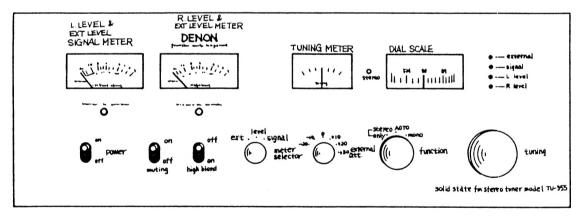
20Hz-15kHz ±0.5dB

BLOCK DIAGRAM

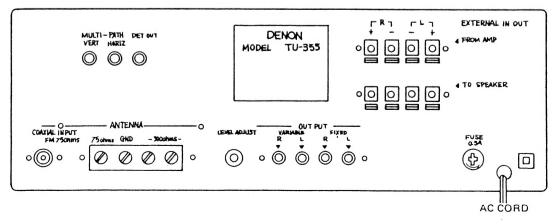


THE VIEW OF FRONT, BACK PANEL AND TOP, BOTTOM VIEW

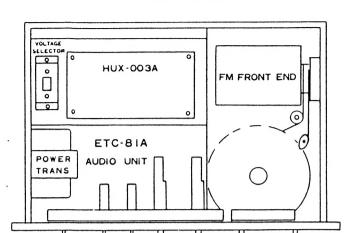
FRONT PANEL



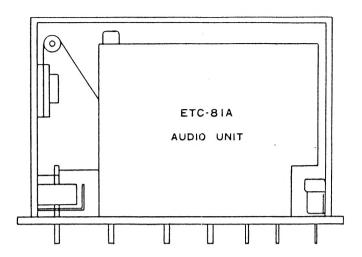
BACK PANEL



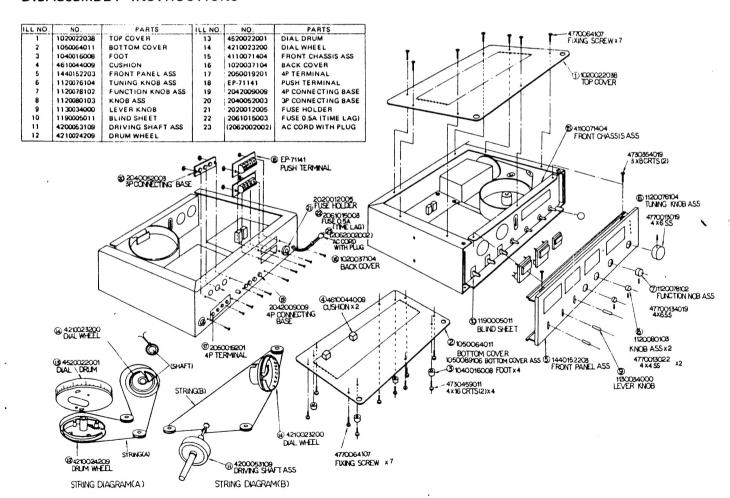
TOP VIEW



BOTTOM VIEW

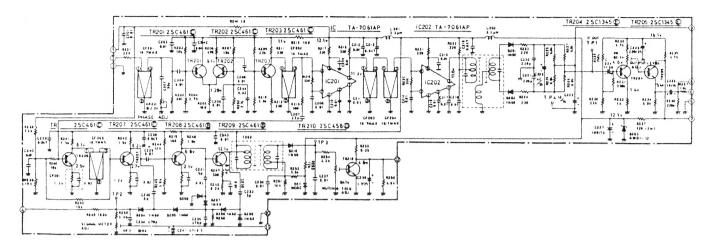


DISASSEMBLY INSTRUCTIONS

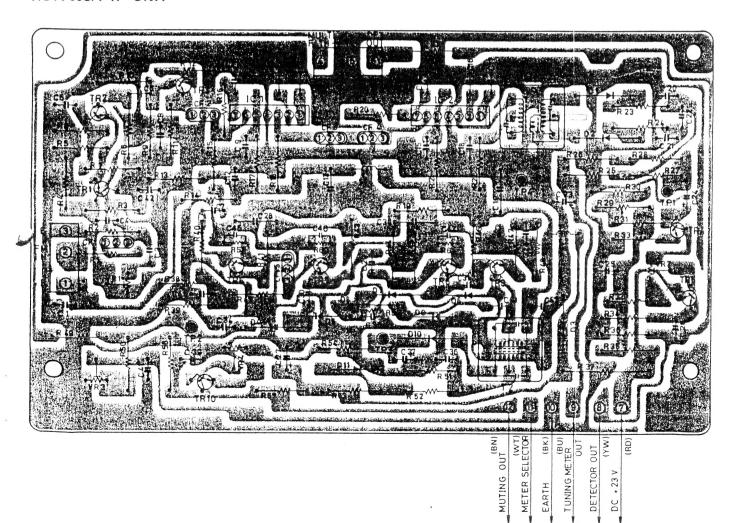


CIRCUIT DIAGRAM, PRINTED CIRCUIT BOARD PATTERN AND PARTS LIST (THE BOARD DIAGRAM REPRESENTS THE VIEW FROM THE COPPER FOIL SIDE)

HUX-003A WIRING DIAGRAM

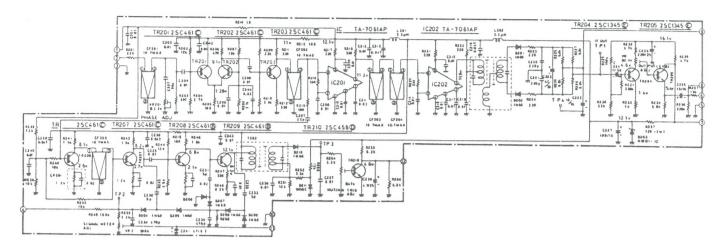


HUX-003A IF UNIT

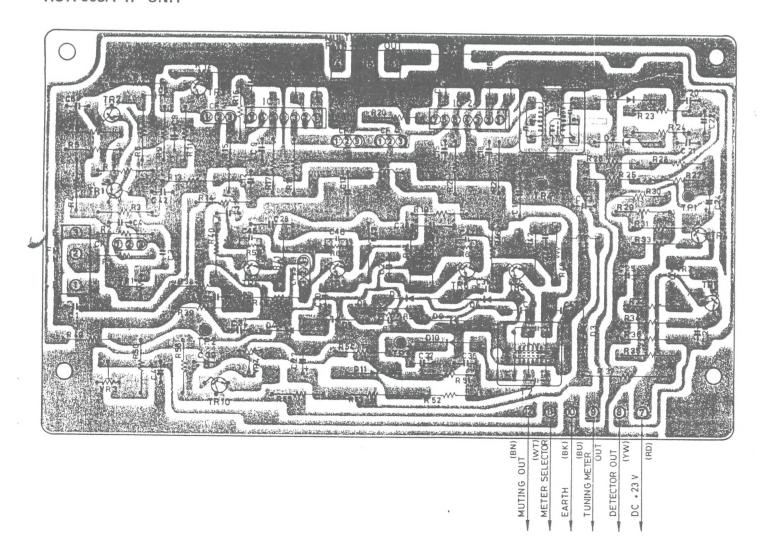


CIRCUIT DIAGRAM, PRINTED CIRCUIT BOARD PATTERN AND PARTS LIST (THE BOARD DIAGRAM REPRESENTS THE VIEW FROM THE COPPER FOIL SIDE)

HUX-003A WIRING DIAGRAM



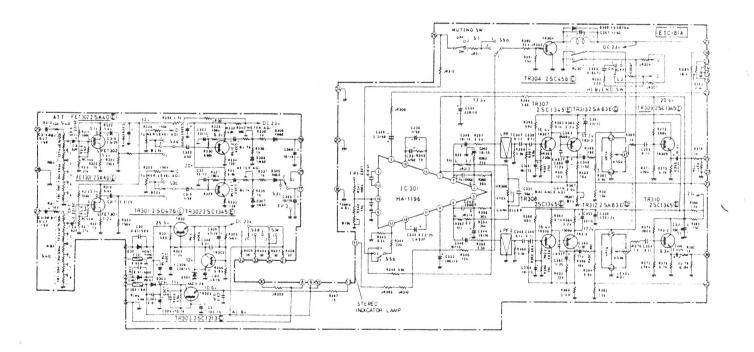
HUX-003A IF UNIT



HUX-003A IF UNIT PARTS LIST

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C1 3 4 5 6	2531024016	CK45F1H103ZF	0.01µF 50V Ceramic Capacitor	R 29	2410366015	RD1482E154JF	150 Kohm 1/4W Carbon Film Resistor
8.9 10.11.				R 30	2410350018	RD1482E333JF	33 Kohin 1/4W Carbon Film Resistor
12.14.15.				R 31	2410374010	RD1482E334JF	330 Kohm 1/4W Carbon Film Resistor
16.17.18.				R 32,35	2410330012	RD14B2E472JF	4.7 Kohm 1/4W Carbon Film Resistor
29.32.36				R 33	2410314012	RD1482E102JF	1.0 Kohm 1/4W Carbon Film Resistor
37 40 42				R 36	2410370014	RD14B2E224JF	220 Kohm 1/4W Carbon Film Resistor
43.45.46.				R 37	2440087018	RS14B3D121JNBF	120 Ohm: 5% 2W Metal Oxide Film Resistor
47				R39.40.42	2410338014	RD1482E103JF	10 Kohm: 5% 1/4W Carbon Film Resistor
C2	2533652017	CC45SL1H 390KF	39PF - 10% 50V Ceramic Capacitor	57			
C7	2533649017	CC45SL1H220KF	22PF - 10% 50V Ceramic Capacitor	R41.43	2410318018	RD1482E152JF	1.5 Kohm 1/4W Carbon Film Resistor
C13,19,28,	2531026014	CK45F1H473ZF	0.047 µF 50V Ceramic Capacitor	R45	2410328011	RD1482E392JF	3.9 Kohm 1/4W Carbon Film Resistor
38				R 46	2410320019	RD1482E182JF	1.8 Kohm 1/4W Carbon Film Resistor
C20.21	2533661011	CC45SL1H221KF	220PF - 10% 50V Ceramic Capacitor	R48.55	2410336016	RD1482E822JF	8.2 Kohm 1/4W Carbon Film Resistor
C22.39	2544024016	CE04W1E4R7=F	4.7µF 25V Electrolytic Capacitor	R49	2410362019	RD14B2E104JF	100 Kohm 1/4W Carbon Film Resistor
C23.26	2544015012	CE04W1C100=F	10µF 16V Electrolytic Capacitor	R58	2410338001	RD14B2E103J	10 Kohm 1/4W Carbon Film Resistor
C24	2544044012	CE04W1H010=F	1µF 50V Electrolytic Capacitor	R59,60,61	2410316007	RD1482E122J	1.2 Kohm 1/4W Carbon Film Resistor
C25	2544029011	CE04W1E221=F	220µF 25V Electrolytic Capacitor	VRI	EP-5462H9	Solid Volume	B-2.2 Kohm Variable Resistor
C27	2544018019	CE04W1C101=F	100µF 16V Electrolytic Capacitor	VR2	EP 5462H10	Solid Volume	B-3.3 Kohm Variable Resistor
C30	2533599015	CC45SL1H060DF	6PF 0 5PF 50V Ceramic Capacitor	VR3	EP 5462H13	Solid Volume	8-10 Kohin Variable Resistor
C31	2533598016	CC45SL1H050DF	5PF 0 5PF 50V Ceramic Capacitor	VR4	EP-5462H17	Solid Volume	B-47 Kohm Variable Resistor
C33	2533596018	CC45SL1H030CF	3PF - 0.25PF 50V Ceramic Capacitor		2220211101	P C Board	Printed Circuit Board
C34,35	2533665017	CC45SL1H471KF	470PF · 10% 50V Ceramic Capacitor		2040031011	6P Connector Ass	
C41	2544002012	CE04WOJ470 : F	47µF 6.3V Electrolytic Capacitor		2034013003	3P Connector Pin Ass	
R1,17,21,	2410298015	RD1482E221JF	220 Ohm 5% 1/4W Carbon Film Resistor	TI	2312001009	Ratio Trans Ass	
22,23,24				T2	2312002105	FM IFT Ass	
R2,11,12, 16.18.20	2410302011	RD14B2E 331JF	330 Ohm 5% 1/4W Carbon Film Resistor	CF 1,2,3,4,	2610006007	Ceramic Filter	10.7 MHz Ceramic Filter
47				L12	TRT-09956	Inductor	3.3µH inductor
R3.7.44.51	2410340015	RD1482E123JF	12 Kohm 5% 1/4W Carbon Film Resistor	IC1.2	2630019029	TA-7061AP	Integrated Circuit
53	2410340013	1151461212331	11 Komm St 1144 Carbon 1 min monator	TR1.2.3.6.	2730025023	2SC461 (C)	Transistor
R4.8	2410324015	RD14B2E272JF	2.7 Kohm 1/4W Carbon Film Resistor	7	2130023023	250401101	1180313101
H5	2410296017	RD1482E181JF	180 Ohm 1/4W Carbon Film Resistor	TR45	2730116013	2SC1345 (E)	Transistor
86	2410306017	RD1482E471JF	470 Ohin 1/4W Carbon Film Resistor	TR8 9	2730025010	2SC461 (B)	Transistor
R9 38	2410346019	RD14B2E223JF	22 Kohm 1/4W Carbon Film Resistor	TR10	2730021043	2SC458 (D)	Transistor
R 10.50.52	2410326013	RD14B2E332JF	3.3 Kohm 1/4W Carbon Film Resistor	D1.2.4.5.6.	2760002029	1N60	Diode
54				7.8.9.10			
B13.15.19	2410290013	RD14B2E101JF	100 Ohm 1/4W Carbon Film Resistor	03	2760065008	AW01-12	Diode
R14	2410266018	RD14B2E100JF	10 Ohm 1/4W Carbon Film Resistor	D11	2760158025	W06C	Diode
R 25.26.27	2410334018	RD14B2E682JF	6.8 Kohin 1/4W Carbon Film Resistor				5.000
28,34,56	15554016		o di la compositione di la compo				

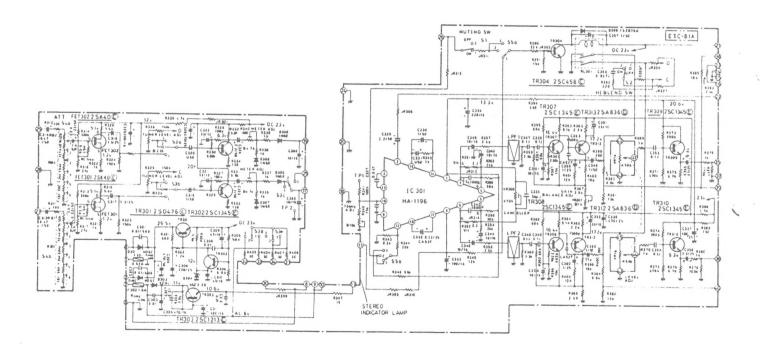
ETC-81 WIRING DIAGRAM



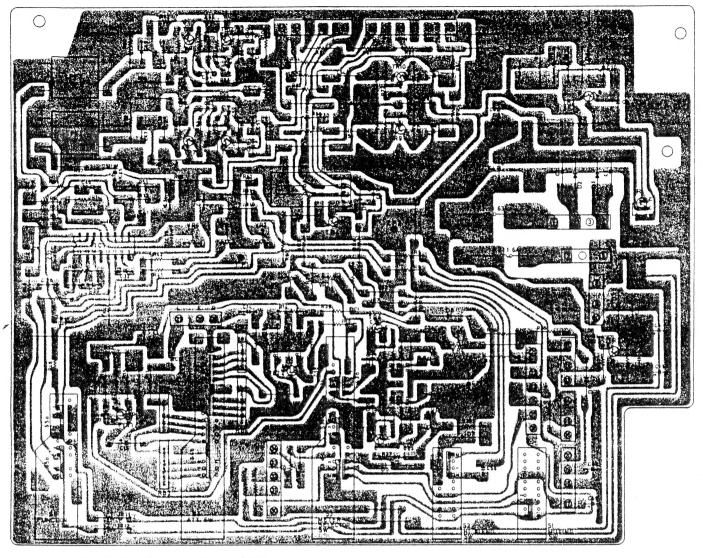
HUX-003A IF UNIT PARTS LIST

Ref. No.	Part No.	Part Name		Remarks	Ref. No.	Part No.	Part Name	Remarks	
C1.3.4.5.6.	2531024016	CK45F1H103ZF	0 0 1 µF 50	V Ceramic Capacitor	R29	2410366015	801482E154JF	150 Kohin 1/4W Carbon Film Resi	stor
8,9,10,11,		1			R 30	2410350018	RD1482E 333JF	33 Kohm 1/4W Carpon Film Resi	
12,14,15,		1			R31	2410374010	RD14B2E334JF	330 Kohm 1/4W Carbon Film Resi	
16.17.18.		1			R 32.35	2410330012	RD14B2E472JF	4.7 Kohm 1/4W Carbon Film Resi	
29.32.36		1			R33	2410314012	RD1482E102JF	1 0 Kohm 1/4W Carbon Film Resi	
37.40.42		1			R36	2410370014	RD1482E224JF	220 Kohm 1/4W Carbon Film Resi	
43.45.46	i				R37	2440087018			
47					R39 40 42		RS14830121JNBF	120 Ohm: 5% 2W Metal Oxide Film	
C2	2533652017	CC45SL1H 390KF	39PF - 10% 50	V Ceramic Capacitor		2410338014	RD14B2E103JF	10 Kohm: 5% 1/4W Carbon Film Resi	1011
C7	2533649017	CC45SL1H220KF			57				
C13,19,28,	2531026014	CK45F1H473ZF		V Ceramic Capacitor	R41,43	2410318018	RD14B2E152JF	1 5 Kohm 1/4W Carbon Film Resi	
38	2531026014	CK45F1H4/32F	0 047 µF 50	V Ceramic Capacitor	R45	2410328011	RD14B2E392JF	3.9 Kohm 1/4W Carbon Film Resis	
					R46	2410320019	RD1482E182JF	1.8 Kohm 1/4W Carbon Film Resi	stor
C20,21	2533661011	CC45SL1H221KF	220PF · 10% 50	V Ceramic Capacitor	R48,55	2410336016	RD14B2E822JF	8.2 Kohm 1/4W Carbon Film Resi	1012
C22,39	2544024016	CEO4W1E4R7=F	4.7µF 25	V Electrolytic Capacitor	R49	2410362019	RD14B2E104JF	100 Kohm 1/4W Carbon Film Resi	stor
C23,26	2544015012	CE04W1C100=F		V Electrolytic Capacitor	R58	2410338001	RD14B2E103J	10 Kohm 1/4W Carbon Film Resi	
C24	2544044012	CE04W1H010+F		V Electrolytic Capacitor	R59,60,61	2410316007	RD1482E122J	1.2 Kohm 1/4W Carbon Film Resi	
C25	2544029011	CE04W1E221=F		V Electrolytic Capacitor	VRI	EP-5462H9	Solid Volume	8-2.2 Kohm Variable Resistor	
C27	2544018019	CE04W1C101=F		V Electrolytic Capacitor	VR2	EP 5462H10	Solid Volume	8-3 3 Kohm Variable Resistor	
C30	2533599015	CC45SL1H060DF		V Ceramic Capacitor	VR3	EP-5462H13	Solid Volume	8-10 Kohrn Variable Resistor	
C31	2533598016	CC45SL1H050DF	5PF · 0 5PF 50	V Ceramic Capacitor	VR4	EP-5462H17	Solid Volume	B-47 Kohm Variable Resistor	
C33	2533596018	CC45SL1H030CF		V Ceramic Capacitor		2220211101	P C Board	Printed Circuit Board	
C34,35	2533665017	CC45SL1H471KF	470PF · 10% 50			2040031011	6P Connector Ass		
C41	2544002012	CE04WOJ470 F	47µF 6	3V Electrolytic Capacitor		2034013003	3P Connector Pin Ass		
R1,17,21,	2410298015	RD1482E221JF	220 Ohm · 5%	1/4W Carbon Film Resistor	T1	2312001009	Ratio Trans Ass		
22,23,24					T2	2312002105	FM IFT Ass		
R2,11,12.	2410302011	RD14B2E 331JF	330 Ohm · 5%	1/4W Carbon Film Resistor	CF1,2,3,4,	2610006007	Ceramic Filter	10.7 MHz Ceramic Filter	
16.18.20.					5			To a mile design of mes	
47					L1.2	TRT-09956	Inductor	3.3µH Inductor	
R3.7.44.51	2410340015	RD1482E123JF	12 Kohm - 5%	1/4W Carbon Film Resistor	IC1.2	2630019029	TA-7061AP	Integrated Circuit	
53					TR1,2,3,6.	2730025023	2SC461 (C)	Transistor	
R4.8	2410324015	RD1482E272JF	27 Kohm	1/4W Carbon Film Resistor	7				
H5	2410296017	RD1482E181JF	180 Ohm	1/4W Carbon Film Resistor	TR45	2730116013	2SC1345 (E)	Transistor	
R6	2410306017	RD1482E471JF	470 Ohrn	1/4W Carbon Film Resistor	TR8.9	2730025010	2SC461 (B)	Transistor	
89,38	2410346019	RD14B2E223JF	22 Kohm	1/4W Carbon Film Resistor	TR10	2730021043	2SC458 (D)	Transistor	
R10.50,52,	2410326013	RD1482E 332JF	33Kohm	1/4W Carbon Film Resistor	D1 2 4 5 6	2760002029	IN60	Diode	
54					7,8,9,10			5.000	
313,15,19	2410290013	RD14B2E101JF	100 Ohm	1/4W Carbon Film Resistor	D3	2760065008	AW01 12	Diode	
314	2410266018	RD1482E 100JF	10 Ohm	1/4W Carbon Film Resistor	D11	2760158025	W06C	Diode	
325,26,27	2410334018	RD1482E682JF	68 Kohm	1/4W Carbon Film Resistor				Diode	
28.34.56				Serson i min mennon					

ETC-81 WIRING DIAGRAM



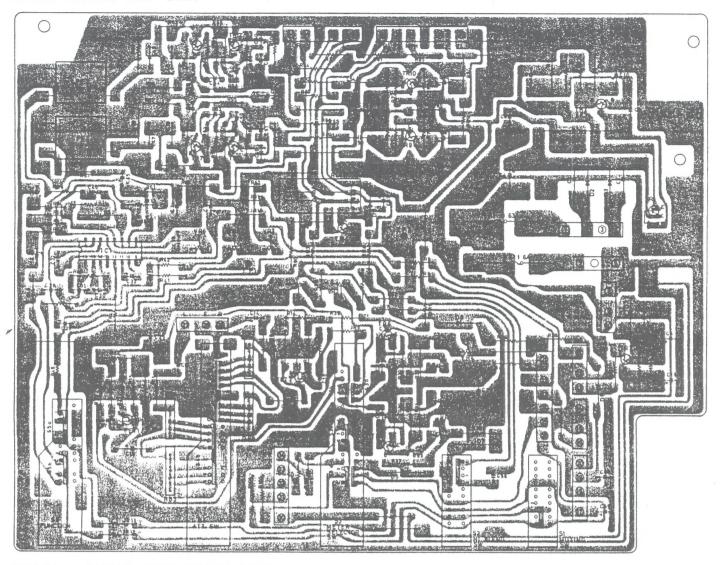
ETC-81 AUDIO AMP UNIT



ETC-81 AUDIO UNIT PARTS LIST

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C1.2	2531053016	CK 45E 2H 103PF	0.01µF 500V Ceramic Capacitor	R23,24,25,	2410366015	RD14B2E154JF	150 Kohm±5% 1/4W Carbon Resisti
C3,7,8,12	2531024016	CK 45F 1H103ZF	0.01 F 50V Ceramic Capacitor	26			
04	2544053016	CE04W1H471=F	470 F 50V Electrolytic Capacitor	R27,28,41,	2410362019	RD1482E104JF	100 Kohm: 5% 1/4W Carbon Resist
25	2544021019	CE04W1C471-F	470 F 16V Electrolytic Capacitor	77.78			
26	2544039014	CE04W1V221-F	220 F 35V Electrolytic Capacitor	R 29.30	2410253018	RD14B2H684JF	680 Kohm 15% 1/2W Carbon Resist
29.10	2544017010	CE04W1C470*F	47µF 16V Electrolytic Capacitor	R33.34	2410293010	BD1482E131JF	130 Ohm: 5% 1/4W Carbon Resist
			100uF 16V Electrolytic Capacitor	R39.75.76	2410330012	RD1482E472JF	4.7 Kohm 15% 1/4W Carbon Resist
11,33	2544018019	CE04W1C101=F			2410330012	RD1482E153JF	15 Kohm:5% 1/4W Carbon Resist
13,14	2544043013	CEO4W1HR47=F	0.47µF 50V Electrolytic Capacitor	R42,87,91			
15,16	2551103014	CQ93M1H224MF	0.22µF±20% 50V Plastic Film Capacitor	R43	2410336016	RD14B2E822JF	
17,18,55	2544023017	CE04W1E3R3=F	3.3µF 25V Electrolytic Capacitor	R44,90	2410346019	RD14B2E223JF	22 Kohm±5% 1/4W Carbon Resis
56				R46,62,88,	2410358010	RD1482E683JF	68 Kohmi 5% 1/4W Carbon Resis
19,20.30	2544044012	CE04W1H010=F	1µF 50V Electrolytic Capacitor	95.97			,
31,49.50				R47	2410270017	RD14B2E150JF	15 Ohm : 5% 1/4W Carbon Resist
57				R48.101.	2410340015	RD14B2E123JF	12 Kohm : 5% 1/4W Carbon Resist
21,22,51	2544008016	CE04W1A330*F	33µF 10V Electrolytic Capacitor	102			
	2544000010	CE0411 1A 330-1	3301 10 V Election file Capacitor	R49	2410303010	RD14B2E361JF	360 Ohm 5% 1/4W Carbon Resis
52				R51 52	2412012079	RD14B2E513G	51 Kohm: 2% 1/4W Carbon Resis
23,24,29	254405500 F	CE04W1H2R2+F	2.2µF 50V Electrolytic Capacitor				
25	2544020010	CE04W1C331=F	330µF 16V Electrolytic Capacitor	R53,54	2410347018	RD14B2E243JF	
26,38	2544031012	CE04W1E471 - F	470µF 25V Electrolytic Capacitor	R55,56	2410349016	RD14B2E303JF	30 Kohm : 5% 1/4W Carbon Resis
27	2551080014	CQ93M1H473KF	0.047µF±20%50V Plastic Film Capacitor	R57,58,68	2410323016	RD14B2E242JF	2.4 Kohm: 5% 1/4W Carbon Resis
28	2556091008	CQ09S1H471J	470PF15% 50V Plastic Film Capacitor	93	1		
32	2545016010	CA92F1ER22MF	0.22 uF + 20% 25V Aluminum Solid Electrolytic	R59.60	2410326013	RD14B2E332JF	3.3 Kohm: 5% 1/4W Carbon Resis
34	2545010010	CASZI IEMZZIMI	Capacitor	R61.94	2410370014	RD14B2E224JF	220 Kohm 5% 1/4W Carbon Resis
34	25	05041111 6321 - 5	220µF 16V Electrolytic Capacitor	R63.64	2410337015	RD1482E912JF	9.1 Kohm: 5% 1/4W Carbon Resis
	2544019018	CE04W1C221=F		R65.66	2410322017	RD1482E222JF	2.2 Kohm : 5% 1/4W Carbon Resis
35	2533621019	CC45SL1H560JF	56PF±10% 50V Ceramic Capacitor		2410321018	RD1482E202JF	2.0 Kohm: 5% 1/4W Carbon Resis
36,43,44,	2544015012	CE04W1C100 * F	10µF 16V Electrolytic Capacitor	R67			
45,46,61				R71,72	2410378016	RD14B2E474JF	470 Kohm 15% 1/4W Carbon Resig
37	2544028012	CE04W1E101*F	100µF 25V Electrolytic Capacitor	R73,74	2410376018	RD1482E394JF	390 Kohm 15% 1/4W Carbon Resis
39.40.47	2551130045	CQ93M1H104JF	0.1µF±5% 50V Plastic Film Capacitor	R81,82	2410341014	RD1482E133JF	13 Kohm : 5% 1/4W Carbon Resis
48,53.54				R85,98,103	2410338014	RD1482E103JF	10 Kohm: 5% 1/4W Carbon Resis
41.42	2554076009	CQ92P2A102G	0.001 uF : 2% 100 V Plastic Film Capacitor	R86	2410318018	RD1482E152JF	1.5 Kohm : 5% 1/4W Carbon Resign
58	2551130003	CQ93M1H473JF	0.047 uF±5% 50V Plastic Film Capacitor	R89	2410294019	RD1482E151JF	150 Ohm : 5% 1/4W Carbon Resis
			1µF+20% 25V Aluminum Solid Electrolytic	R92	2410298015	RD1482E221JF	220 Ohm : 5% 1/4W Carbon Resis
59,60	2545020019	CA92F1E010MF					
			Capacitor	R9-6	2410343012	RD1482E163JF	16 Kohm 5% 1/4W Carbon Resist
63,64	2551120026	CQ93M1H152J	0.0015µF±5%50V Plastic Film Capacitor	R99,100	2410304019	RD1482E391JF	390 Ohm 5% 1/4W Carbon Resist
65,66	2544015009	CE04W1C100=	10μF 16V Electrolytic Capacitor	R104,105,	2410277010	RD1482E300JF	30 Ohm 5% 1/4W Carbon Resist
1.40	2410310016	RD1482E681JF	680 Ohm : 5% 1/4W Carbon Resistor	106,107	1		
2	2410316010	RD14B2E122JF	1.2 Kohm: 5% 1/4W Carbon Resistor		2220202107	P.C Board	Printed Circuit Board
3	2410328011	RD14B2E392JF	3.9 Kohmi 5% 1/4W Carbon Resistor		4120222104	Control Bracket	Times circuit board
4,5,19,20	2410322010	RD1482E562JF	5.6 Kohm: 5% 1/4W Carbon Resistor		2034013003	3P Connector Pin Ass	
1,5,19,20					2030029004		
6.31.32.	2410334018	RD1482E682JF	6.8 Kohm±5% 1/4W Carbon Resistor	i		4P Connector Base	
83,84					2038004005	5P Connector Base	
11,12	2410290013	RD14B2E101JF	100 Ohm: 5% 1/4W Carbon Resistor		20 300 2800 5	6P Connector Base	
13,14	2410374010	RD14B2E334JF	330Kohm±5% 1/4W Carbon Resistor		2120058008	Rotary Switch	For Meter Selector
15,16	2420193016	RC05GF2E155KF	1.5 Mohm±10% 1/4W Carbon Resistor		2120057009	Rotary Switch Fo	For Function
17,18	2410348017	RD14B2E273JF	27 Kohm±5% 1/4W Carbon Resistor		2120056000	Rotary Switch	For Ext Att
21,22,35	2410314012	RD1482E102JF	1 Kohm 15% 1/4W Carbon Resistor		2124029101	Lever Switch	For Muting, HI Blend
36,37,38					2320013005	Low Pass Filter	r or marring, recolored
15,69.70					EP-5870	Fuse Holder	
79,80					EF-08/U		
79,00					EP-71321	Fuse 0.63A	
	1	1		ı	EP-71325	Fuse 1.6A	

ETC-81 AUDIO AMP UNIT



ETC-81 AUDIO UNIT PARTS LIST

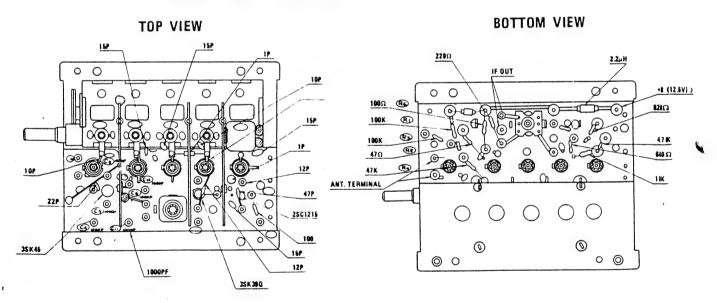
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C1.2 C3.7.8.12	2531053016 2531024016	CK 45E2H103PF CK 45F1H103ZF	0.01µF 500V Ceramic Capacitor 0.01µF 50V Ceramic Capacitor	R23,24,25,	2410366015	RD14B2E154JF	150 Kohm : 5% 1/4W Carbon Resistor
C4 C5	2544053016 2544021019	CE04W1H471=F CE04W1C471-F	470µF 50V Electrolytic Capacitor 470µF 16V Electrolytic Capacitor		2410362019	RD1482E104JF	100 Kohm: 5% 1/4W Carbon Resistor
C6	2544039014	CE04W1V221-F	220uF 35V Electrolytic Capacitor	R29.30	2410253018	RD1482H684JF	680 Kohm 15% 1/2W Carbon Resistor
C9.10	2544017010	CE04W1C470*F	47µF 16V Electrolytic Capacitor	R33.34	2410293010	RD1482E131JF	130 Ohm: 5% 1/4W Carbon Resisto
C11.33	2544018019	CE04W1C101-F	100µF 16V Electrolytic Capacitor	R39.75.76	2410330012	RD14B2E472JF	4.7 Kohm±5% 1/4W Carbon Resisto
C13.14	2544043013	CEO4W1HR47=F	0.47µF 50V Electrolytic Capacitor	R42.87.91	2410342013	RD14B2E153JF	15 Kohm: 5% 1/4W Carbon Resisto
C15.16	2551103014	CQ93M1H224MF	0.22 µF t 20% 50V Plastic Film Capacitor	R43	2410336016	RD1482E822JF	8.2 Kohrn : 5% 1/4W Carbon Resisto
C17,18,55	2544023017	CE04W1E3R3×F	3.3µF 25V Electrolytic Capacitor	R44.90	2410346019	RD14B2E223JF	22 Kohm: 5% 1/4W Carbon Resisto
56			0.00	R46,62.88	2410358010	RD1482E683JF	68 Kohms 5% 1/4W Carbon Resisto
C19,20,30	2544044012	CE04W1H010=F	1 uF 50V Electrolytic Capacitor	95,97			,
31,49.50				R47	2410270017	RD14B2E150JF	15 Ohm : 5% 1/4W Carbon Resisto
57				R48.101.	2410340015	RD1482E123JF	12 Kohm 15% 1/4W Carbon Resisto
C21,22,51	2544008016	CE04W1A330*F	33µF 10V Electrolytic Capacitor	102			
52				R49	2410303010	RD14B2E361JF	360 Ohm 5% 1/4W Carbon Resisto
C23,24,29	2544055001	CE04W1H2R2*F	2.2µF 50V Electrolytic Capacitor	R51.52	2412012079	RD14B2E513G	51 Kohmi 2% 1/4W Carbon Resisto
C25	2544020010	CE04W1C331=F	330µF 16V Electrolytic Capacitor	R53.54	2410347018	RD14B2E243JF	24 Kohm: 5% 1/4W Carbon Resisto
C26.38	2544031012	CE04W1E471*F	470µF 25V Electrolytic Capacitor	R55.56	2410349016	RD14B2E303JF	30 Kohm : 5% 1/4W Carbon Resisto
C27	2551080014	CQ93M1H473KF	0.047µF120%50V Plastic Film Capacitor	R57 58 68	2410323016	RD14B2E242JF	2.4 Kohm: 5% 1/4W Carbon Resisto
C28	2556091008	CQ09S1H471J	470PF:5% 50V Plastic Film Capacitor	93			
C32	2545016010	CA92F1ER22MF	0.22µF:20% 25V Aluminum Solid Electrolytic	R59.60	2410326013	RD1482E332JF	3.3 Kohm: 5% 1/4W Carbon Resisto
			Capacitor	R61,94	2410370014	RD1482E224JF	220 Kohm 5% 1/4W Carbon Resisto
C34	2544019018	CE04W1C221=F	220µF 16V Electrolytic Capacitor	R63,64	2410337015	RD1482E912JF	9.1 Kohm: 5% 1/4W Carbon Resisto
C35	2533621019	CC45SL1H560JF	56PF:10% 50V Ceramic Capacitor	R65,66	2410322017	RD14B2E222JF	2.2 Kohm+5% 1/4W Carbon Resisto
C36,43,44,	2544015012	CE04W1C100+F	10µF 16V Electrolytic Capacitor	R67	2410321018	RD1482E202JF	2.0 Kohm: 5% 1/4W Carbon Resisto
45,46,61				R71,72	2410378016	RD14B2E474JF	470 Kohm : 5% 1/4W Carbon Resisto
C37	2544028012	CE04W1E101*F	100µF 25V Electrolytic Capacitor	R73,74	2410376018	RD14B2E394JF	390 Kohm : 5% 1/4W Carbon Resisto
C39.40,47,	2551130045	CQ93M1H104JF	0.1 µF:5% 50V Plastic Film Capacitor	R81,82	2410341014	RD1482E133JF	13 Kohm : 5% 1/4W Carbon Resisto
48,53,54				R85,98,103	2410338014	RD14B2E103JF	10 Kohm: 5% 1/4W Carbon Resisto
C41,42	2554076009	CQ92P2A102G	0.001 µF ± 2% 100 V Plastic Film Capacitor	R86	2410318018	RD14B2E152JF	1.5 Kohm : 5% 1/4W Carbon Resisto
C58	2551130003	CQ93M1H473JF	0.047µF±5% 50V Plastic Film Capacitor	R89	2410294019	RD1482E151JF	150 Ohm : 5% 1/4W Carbon Resisto
C59,60	2545020019	CA92F1E010MF	1µF:20% 25V Aluminum Solid Electrolytic	R92	2410298015	RD1482E221JF	220 Ohm : 5% 1/4W Carbon Resisto
			Capacitor [R96	2410343012	RD1482E163JF	16 Kohm 5% 1/4W Carbon Resisto
C63,64	2551120026	CQ93M1H152J	0.0015µF±5%50V Plastic Film Capacitor	R99,100	2410304019	RD1482E391JF	390 Ohm 5% 1/4W Carbon Resisto
C65,66	2544015009	CE04W1C100=	10μF 16V Electrolytic Capacitor	R104,105,	2410277010	RD1482E300JF	30 Ohm 5% 1/4W Carbon Resisto
R1,40	2410310016	RD1482E681JF	680 Ohm: 5% 1/4W Carbon Resistor	106,107			
R2	2410316010	RD14B2E122JF	1.2 Kohm: 5% 1/4W Carbon Resistor		2220202107	P.C Board	Printed Circuit Board
R3	2410328011	RD1482E392JF	3.9 Kohm: 5% 1/4W Carbon Resistor		4120222104	Control Bracket	The street board
R4,5,19,20	2410332010	RD1482E562JF	5.6 Kohm: 5% 1/4W Carbon Resistor		2034013003	3P Connector Pin Ass	
R6.31.32,	2410334018	RD1482E682JF	6.8 Kohm±5% 1/4W Carbon Resistor		2030029004	4P Connector Base	
83,84					2038004005	5P Connector Base	
R11,12	2410290013	RD14B2E101JF	100 Ohm±5% 1/4W Carbon Resistor		2030028005	6P Connector Base	
R13,14	2410374010	RD1482E334JF	330Kohm±5% 1/4W Carbon Resistor		2120058008	Rotary Switch	For Meter Selector
R15,16	2420193016	RC05GF2E155KF	1.5 Mohm±10% 1/4W Carbon Resistor		2120057009	Rotary Switch Fo	For Function
R17,18	2410348017	RD14B2E273JF	27 Kohm: 5% 1/4W Carbon Resistor		2120056000	Rotary Switch	For Ext Att
R21,22,35,	2410314012	RD1482E102JF	1 Kohm±5% 1/4W Carbon Resistor		2124029101	Lever Switch	For Muting, HI Blend
36,37,38,					2320013005	Low Pass Filter	
45,69,70,					EP-5870	Fuse Holder	
79,80					EP-71321	Fuse 0.63A	
	1				EP-71325	Fuse 1.6A	

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
ICI FET1,2 TR1 TR2,7,8,9, 10 TR3 TR4 TR5,6 TR12,13 D1,2,3	2630052002 2750007021 2740043008	HA-1196 25K 40 (C) 25D 476 (C) 25C 1345 (E) 25C 1213 (C) 25C 458 (C) 25C 458 (D) 25A 836 (D) RA-12 M7-3128	Integrated Circuit Field Effect Transistor Transistor Transistor Transistor Transistor Transistor Transistor Olode Dude	D5,6,7,8 D9 RLI VR1,2 VR3,4 VR5 VR6 R81,2 R83,4	2760002029 2760049011 2140015005 EP-5462H15 EP-5462H11 EP-5462H13 EP-5462H23 2462001001 2462002000 2062008006	IN60 IS 2076A Reed Reray Solid Volume Solid Volume Solid Volume Solid Volume RK923-28 RK924-28 AC Cord With Plug	Diode Diode Diode Diode Diode Diode B-22 Kohm Variable Resistor B-4.7 Kohm Variable Resistor B-10 Kohm Variable Resistor B-170 Kohm Variable Resistor Resistor Block Resistor Block For Australia

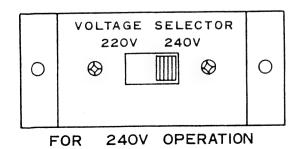
GE-0005-1 CHASSIS & CABINET GROUP

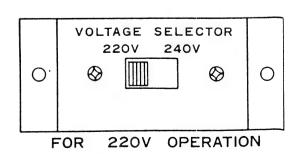
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
		T. O			2150016117	Level Meter (L) Ass	
	1020022038	Top Cover	For Top Cover, Bottom Cover		3939007201	Lamo Ass	Meter Select Indicator Lamp
	4770064107	Fixing Screw	Por Top Cover, Bottom Cover		2220196006	P.C Board	For Stereo Indicator Lamp
	1050089106	Bottom Cover Ass			3930024001	P L 6.3V 0.075A	Stereo Indicator Lamp
	1440152203	Front Panel Ass			2034080081	3P Connector Cord	For Stereo Indicator Lamp
	1220076104	Tuning Knob Ass	1		2220212100	P C Board	For Level Meter (R), (L) Ass, Tuning Meter
	1120078102	Function Knob Ass			3930026009	P L 8V 0.2A	For Level Meter (R), (L) Drum, Tuning
	1120080103	Knob Ass	External Att, Meter Selector		3930020000	F L 8V 0.2A	Meter Illumination
	1130034000	Lever Knob	For Power, Muting, High Blend Switch				Meter Indianación
	1190005011	Blind Sheet	For Lever Knob		2150015105	Tuning Meter Ass	For Drum Lamp
	4100051308	Dial Chassis Ass			2220213002	P C board	For AC line Fuse
	4210119004	Guide Wheel	1		2020012005	Fuse Holder	
	SC-1161	Tapping Screw	For Guide Wheel		2061015003	Fuse 0.5A (Time Lag)	AC Line Fuse
	MD-0131J	Guide Wheel			2062002002	AC Cord With Plug	
	4200053109	Driving Shaft Ass	1		4450020005	Cord Bush	For AC Cord
		G.W Bracket (A) Ass	1		2050019201	4P Terminal	Antenna Terminal
	4100060205				4714304030	3 x 8 CTS	For Antenna Terminal
	4100061107	G.W Bracket (C) Ass			EP-71141	Push Terminal	For Speaker Terminal
	4220068103	Diel Sheft			2335026003	Power Trans Ass	
	WA-0733	Spacer	1		2160009004	FM Front End Ass	
	4210024209	Drum Wheel	1			3 x 12 CRTS (2)	For Front End
	WA-0728	E-Ring			4730356033		For Front End
	4756013004	6N	1		4430113000	Stay	Out Put Terminal
	S-2680	Tension Spring	1		2042009009	4P Connecting Base	
	4230011001	String	ø0.55 Tetion		E-9843H	Fix Plate	For Out Put Terminal
	4520022001	Dial Drum			2040052003	3P Connector base	Det Out, Multi Path, Out Put Terminal
	4210023200	Dial Wheel	1		2110087005	V2420N10SA503	A-50 Kohm Level Adjust
	4110071404	Front Chassis Ass			2032055005	Coaxial Connector	75 Ohm Antenna Connector
	4140063000	Blind			2310017008	Batun Trans	
					2034083004	3P Connector Cord	For Front End
	4110056306	IF Chassis	1		2034084003	3P Connector Cord	For Det Out, Multi Path
	4732355032	3 x 10 CFTS (2)		-	2034084003	3P Connector Cord	For Ext In Put Terminal
	4510010007	Lamp Bracket			2034080052	3P Connector Cord	For Level Meter (R), (L), Tuning Meter Drum, Lam
	4510011103	Reflector Bracket			2034080065	3P Connector Cord	For Tuning Meter
	1020037104	Back Cover		i	2036041015	4P Connector Cord	For Level Meter (R), (L)
	4530006004	Filter (A)	Blue Coller Filter For Level Meter (R), (L),		2038035016	5P Connector Cord	For A-50 Kohm Level Adjust
		1	Tuning Meter Illumination	1	2040031024	6P Connector Cord	For Out Put Terminel
	4530007003	Filter (B)	Blue Collar Filter			SP Connector Cara	FOI OUL FOI TOTALISM
		l .	For Drum Illumination	1	MD-4368	Citata Citata	Voltage Selector
	4610066139	Rubber Sheet	I	ı	2124047002	Slide Switch	
	4610066126	Rubber Sheet	1		4120297003	Bracket	For Voltage Selector
	1460027103	Dial Window (C) Ass		C1,2	2518001007	CPOSC == AC103MC	0.01µF t 20%, 450VAC Oil Capacitor
	2124072006	Lever Switch	For Power Switch	1		1	For Power Switch
	2150016104	Level Meter (R) Ass		RI	2440064002	RS14B3D1R5JNB	1.5 Ohm ±5% 2W Metal Oxide Resister

THE VIEW OF THE FRONT END (216000904)



VOLTAGE CHANGEROVER





METHOD OF ADJUSTMENTS

	REMARKS	Maximum In following adjust- signal strength ments, specification of FM signal generator & stereo modulator have to warrant less than	0.1% distortion and more than 50dB stereo separation at 1 kHz.		Repeat step 3 and 4, until dial indicates	within ±50kHz at 88MHz and 108MHz. Also check accuracy of other frequency reading.			·		
10111 44	LIMITS	Maximum signal strength meter	Center point of tuning meter	Same		Ѕвше	Maximum signal strength meter	Same	Minimum distortion	1.13V.	1.13V.
	ADJUST	Top (sec.) and bottom (pri.) of T101 on front end unit. (216009004)	Top (sec.) of T201 on IF unit (HUX-003A)	OSC, trimmer Tc105 on front end unit (2160009004)		OSC, coil L105 on front end unit (2160009004)	Tc, 101, 102, 103, 104 on Maximum fromt end unit signal strer (2160009004)	L101, 102, 103, 104 on front end unit (2160009004)	Bottom (pri.) of T201 on IF unit (HUX-003A)	VR.202 on IF unit (HUX-003A)	VR.307 on Audio unit (ETC-81A)
INDICATOR	CONNECTED TO								Fixed output R-channei	Same	Fixed output L-channel
INDIC	TYPE	Signal strength meter	Tuning meter	Same		Ѕале	Signal strength meter	Ѕате	Distortion meter A.C. V.M. oscil- loscope	Ѕате	Ѕаше
	COUPLING	Through dummy ant. to 300 ohms ant, terminals	Same	Ѕате		Same	Same	Same	Same	Ѕате	Same
æ	MODULA- TION	Č		400Hz ±75k Hz deviation		Sаme	Same	Ѕате	1000Hz ±75kHz deviation	400Hz ±75kHz deviation	Ѕате
SIGNAL GENERATOR	TUNER INPUT LEVEL	Λπ/8Ρ09	Received FM noise	Λπ/ΒΡΟ9		Ѕате	Same	Same	Ѕате	Ѕате	Ѕате
Sic	FREG	98MHz		108MHz		88МН2	108MHz	88MHz	98МН2	Same	Same
	TYPE	FM SG	Same	Same		Same	Same	Same	Same	Same	Same
	DIAL	98MHz	Point of no interference & station	108MHz		88MHz	108MHz	88MHz	Same	Same	Ѕвгле
	ITEM	<u>π</u>	Detector	Dial		Same	Tracking	Same	Monoural	Audio output level	Same
	STEP	-	2.	тi		4	ъ́	ý	7.	ωί	oi

	REMARKS		then reading of 0.2%, turn top (sec.) and bottom (pri.) of T101 on front end unit (2160009004) to obtain reading of 0.15%.	Check to alternate both channels		Set muting switch to "ON" and VR.204 to minimum counter	clockwise position and then turn VR.204 slow. Iy in clockwise direction untill audio outpast is obtained.	Turn to obtain reading of OdB (100%) on the signal strength meter.	Set meter selector switch to "External" and external att. to Odf position.	Adjust for Set meter selector +2.3dB switch to "Level"
TSHIRE	LIMITS	76kHz ±100Hz.	Minimum th	Maximum separation	Maximum signal strength meter		Trig. on audio output	0dB point	Adjust for OdB both channels	Adjust for +2.3dB both channels
	ADJUST	VR.305 on Audio unit (ETC-81A)	VR.201 on IF unit (HUX-003A)	VR.306 on Audio unit (ETC-81A)	Top (sec.) and bottom (pri.) of T202 on IF unit (HUX-003A)		VR.204 on IF unit (HUX-003A)	VR.203 on IF unit (HUX-003A)	VR.303 and VR.304 on AUDIO unit (ETC-81A)	VR.301, and VR.302 on AUDIO unit (ETC-81A)
ATOR	CONNECTED	TP301	Fixed output L-channel	Fixed output Lor R- channel						
INDICATOR	TYPE	Frequency counter	Distortion meter A.C. V.M. oscil- loscope	Distortion meter A.C.V.M. oscilloscope	Signal strength meter		L or R-chan nel level meter	Signal strangth meter	L and R-chan- nel level meter	L and R-chan- nel level meter
	COUPLING	Same	Same	Through dummy ant. to 300 ohms ant, terminals	Same		Seme	Same	L and R-chan- nel external input termi- nals	Through dummy ant. to 300 ohms ant. terminals
TOR	MODULA- TION	Same	Stereo modu- letion L-chan- nel ± 33.75 kHz devistion pilot ± 7.5 kHz devistion	Stereo modu- lation nel ± 33.75 kHz deviation Pilot ± 7.5 kHz deviation	400Hz ±75kHz deviation		Хвте	400Hz 22.5kHz deviation		400Hz ±75kHz deviation
SIGNAL GENERATOR	TUNER INPUT LEVEL	Same	Same	Λπ/8009	20dB/µV		Same	.Vμ/8b08	0.775V	Λη/8b09
SIG	FREO	Same	Seme	98MHz	98MHz		Same	Same		98MHz
	TYPE	Same	FM SG and stereo modulator	FM SG. and stereo modu-	Sene		Sa Ta	Same	Audio 1,000Hz oscilletdr	FM SG.
	DIAL	Seme	Series	98MHz	98МН2		Same	Same		98MHz
	ITEM	P.L.L.19kHz	Stereo	Stereo	Muting coil		Muting Trigger level	Signal strength meter	Level meter	Tuner output level setting
	STEP	0.	= 5	12. \$	13.		4.	č.	16.	17.

